41日44	1 At 146 Inc. 20	類組代碼	A12
科目名稱	計算機概論	科目碼	A1201
※本項考試	依簡章規定各考科均「不可以」使用計算機	本試題共	计 4 頁
一、選擇與 ※ 注意:言 1. A	i [皆為單選,50% in total,2% each,不答得 0 分,答錯倒扣 1 分析	ow multiple us machine (C) se um to function gisters t instructions. (c) owledge and in tem (C) intellige (A) data model wility measures and qualified per operation (B) web page. (A) (A) parser (B) ual's workspace	ers access and rver operating as additional (A) buffer (B) mitates human nt system (D) (B) data mart whether the ople needed to schedule (C) KML (B) CSS compiler (C) te using wired
used all	the allotted data amount is known as (A) capping (B) the lock (E) IP hijacking		
11	_ is a scam in which a perpetrator sends an official looking email messonal information. (A) Spam (B) Phishing (C) Malware (D) Spyware		npts to obtain
	operating system stores data on a disk, it places that data in the first av (C) block (D) array (E) sector	vailable	(A) buffer
data aga	provides a read-only, static view of a source database that is typinst errors, offloading reporting, etc. (A) schema (B) map (C) snapsho is a program, typically malicious, designed to enable access to a condid not otherwise be allowed. (A) Virus (B) Spyware (C) Worm (D) R	ot (D) page (E) nputer or areas	transaction of its software

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- 15. An URL does NOT contain ______. (A) protocol (B) network id (C) resource name (D) domain name(E) server name
- 16. Two's complement is the way most modern computer represent integers. To get the two's complement of a number, simply invert every digits of the number and add 1. Based on this rule, what is the two's complement of 64? (A) 00100000 (B) 11011111 (C) 11100000 (D) 00011111 (E) 11110000
- 17. Which of the following statements about passing C++ arrays as arguments is FALSE? (A) It is impossible to pass an array by value. (B) When declaring an array in a function's parameter list, you do not attach an ampersand (&) to the name of the component type. (C) When declaring a one-dimensional array in a function's parameter list, you must include its size within square brackets. (D) At run time, the base address of the argument is passed to the function (E) It is possible to pass an array to a function as a pointer
- 18. Given the following C++ declarations:

float a = 2.0, b = 3.0;

const float* ptr1 = &a;

float * const ptr2 = &b;

which of the following is a valid assignment?

- (A) *ptr2 = *ptr1; (B) *ptr1 = *ptr2; (C) ptr1 = *ptr2; (D) ptr2 = ptr1 (E) a = ptr1
- 19. Public-key encryption is also known as ______. (A) open-key encryption (B) symmetric key encryption (C) two-key encryption (D) scrambled encryption (E) asymmetric key encryption
- 20. Which of the following protocol is used to translate an IP address to a MAC address? (A) DNS (B) ARP (C) DHCP (D) IP (E) PPP
- 21. A ______ is a small text file that a web server stores on your computer for personalization, or keeping track of items in a user's shopping cart, etc. (A) profile (B) cookie (C) certificate (D) spreadsheet
- 22. Which of the following about C++ is true? (A) The compiler will always define a default constructor for you (B) There can be multiple constructors in a class as long as they have different set of parameters (C) Constructors do not return any value, so their return types must be void (D) There can be multiple destructors in a class (E) Constructor and destructor must be called explicitly
- 23. Which of the following is NOT true about UDP? (A) Provides connectionless data delivery services to upper layer applications (B) Provides checksums for data integrity (C) Data is guaranteed to be delivered in order (D) Provides port numbers for addressing different functions at the source and the destination (E) Suitable for simple query-response protocols, such as DNS or NTP
- 24. Which one of the following is NOT a dynamic data structure? (A) Linked list (B) Dictionary (C) Array (D) Binary tree (E) Vector
- 25. C++ Classes cannot: (A) Be derived from other classes (B) Protect private data members from being accessed outside the class (C) Be used to model attributes and behaviors of objects (D) Include objects from other classes as members (E) Initialize data members in the class definition

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二、問答題

(一) 名詞解釋 [25% in total; 5% for each term]

Please briefly explain the following terms

- 1. Pretexing
- 2. Polymorphism
- 3. Internet of Things (IoT)
- 4. Virtualization
- 5. IaaS

(二) 程式設計與簡答題 (共三題) [25%]

- 1. Explain how the appropriate design of the electronic database (e.g., normalization) can help ensure the confidentiality of the critical data. (8%)
- 2. Use any programming language you want to write a program that takes 5 integers from a user, compares the value of these integers, and then display all these integers in an ascending order on the computer screen. [12%]

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3. What is the output of the following C++ program? [5%]

#include <iostream>
int main () {
 int y, x=1, total = 0;
 while (x<=10)
 {
 if (x % 5 == 0)
 {
 x++;
 }
 else
 {
 y = x * x;
 cout << y << endl;
 total += y;
 ++x;
 }

cout << "Total is" << total << endl;</pre>

return 0;

}